WHAT IS CLAIMED IS:

1. A method of manufacturing a disc-shaped recording medium having a layer composed mainly of resin on a recording layer provided on a disc-shaped substrate, characterized in that:

the layer composed mainly of the resin is irradiated with electron beams of which an acceleration voltage is equal to or higher than 20 kV and is equal to or lower than 100 kV, thereby curing at least the surface of the layer composed mainly of the resin.

2. A method of manufacturing a disc-shaped recording medium according to claim 1, wherein a surface layer formed on the layer composed mainly of the resin is cured.

3. A method of manufacturing a disc-shaped recording medium according to claim 2, wherein the surface layer is a lubricating layer.

4. A method of manufacturing a disc-shaped recording medium according to claim 1, 2 or 3, wherein said disc-shaped substrate is irradiated with the electron beams while rotating said disc-shaped substrate.

5. A method of manufacturing a disc-shaped recording medium according to any one of claims 1 through 4, wherein an electron beam shield container rotatably accommodates said disc-shaped substrate, and

an interior of said shield container is replaced with an inert gas atmosphere by introducing an inert gas into the interior of said shield container.

6. A method of manufacturing a disc-shaped recording medium according to claim 5, wherein the inert gas is introduced while measuring an oxygen concentration within said shield container.

7. A method of manufacturing a disc-shaped recording medium according to claim 5 or 6, wherein the inert gas is flowed through the vicinity of an irradiation window of an electron beam irradiation unit for irradiating the electron beams toward a gas discharge port from a gas introduction port, thereby cooling off the vicinity of said irradiation window.

8. A method of manufacturing a disc-shaped recording medium according to any one of claims 1 through 7, wherein the acceleration voltage is set in consideration of a thickness of the layer composed mainly of the resin.